Hitachi IP5000 WiFi SIP Phone

1 Important Notes

- Check the *SIP 3rd Party validation web site* for current validation status. The *SIP 3rd Party validation web site* can be viewed at: http://testlab.inin.com or http://testlab.vonexus.com
- Acceptable audio quality is dependant on a premier WiFi 802.11 infrastructure.
- After a factory reset, the unit will default to Japanese.
- SIP Authentication will require TSServer HF3157 for 2.3.1 or xIC 2.4.
- MWI functionality will require TSServer HF3157 for 2.3.1 or xIC 2.4.

2 Vendor Documentation

Documentation can be found on the CD shipped with the IP5000. Current firmware, configuration examples and documents can be found on the Interactive Intelligence Website.

3 Validated Firmware Version

V2.0.1

4 Install

Download related files from the Interactive Intelligence 3rd Party website: http://testlab.inin.com or http://testlab.vonexus.com

Contained in the zip file will be the validated version of firmware and sample .ini files.

5 Configuration

Methods:

- Manipulation of the supplied .ini file, then uploading it via TFTP through the menu system. This method is recommended for a quick start scenario and for single unit deployments. The I3 supplied .ini file, with just a few modifications will get a basic setup up and running. Please note, the I3 supplied .ini file is not meant to be a drop in configuration for every environment, it is provided as reference only.

- Web interface: The web interface is very easy to use and exposed advanced configuration options. Use of the web interface is preferred over manipulation of the .ini files.

Initial Setup:

- Charge the IP5000 following the procedure outlined in section 4.x of the user's manual.
- Refer to section 1.x of the administrator's manual to configure the IP5000 to connect to the wireless network.
- Once the phone has connected to the wireless network follow these steps to determine the IP address assigned to the IP5000:
    1. Press the Menu Softkey (on the left, above the "joystick")
    2. Using the "joystick" move the selection box down to option 5. Setup and click the "joystick."
    3. Move the selection box down to option 6. Information and click.
    4. Selection box should be on option 1. TCP/IP so just click one more time.
    5. Confirm DHCP is enabled and make note of the assigned IP address.
- Open the web interface by pointing a web browser to: http://1.2.3.4:8080/ (where 1.2.3.4 is the assigned IP address of the IP5000). You will be prompted for login credentials. The default administrator login is, 'admin' for the username and '0000000' as the password.

Download Current Firmware:

- The main screen of the web interface should look similar to the following:

Software Specification	
MODEL	**WirelessIP5000**
SOFTWARE VERSION	**v2.0.1**
IP ADDRESS	**10.10.1.148**
NETMASK	**255.255.0.0**
GATEWAY	**10.10.0.1**
MAC ADDRESS	

- Make sure the current version of the firmware is installed. See Validated Firmware section above.
- If the IP5000 is not running the validated version of firmware, refer to section 3.5 of the IP5000 Administrator's Guide for instructions on upgrading the firmware.

.ini File(s):

- If multiple units are to be deployed, then you can modify the 'loadrun.ini' file so that the phones will request unit specific 'user.ini files. The sample files provided by Interactive Intelligence, Inc. already have this modification. See next section for details.
- There are two .ini files that the IP5000 uses. The user.ini contains all of the configuration settings and the loadrun.ini file contains information used during the TFTP process.

Deploying Multiple Units:

Open the 'loadrun.ini' file and in section 3, you'll find:

```
[3]
name=user.ini
```

mode=code

Simple change the user.ini line to read:

[3]
name=user%M.ini
mode=code

This will cause the unit to request the 'loadrun.ini' and then 'user000000000000.ini' for each phone configured. '000000000000' will represent the MAC address of each specific unit.

Changing the Configuration:

- Prior to making any changes, the Administrator's Guide and the Web Manual should be consulted.
- Changes can be made via the web interface or the .ini file can be modified and re-downloaded to the IP5000, noting the issues above regarding environments with multiple units.
- Examples of the more significant portions of the web interface. This is not a comprehensive web interface tutorial but intended to ensure that all settings required for compatibility with xIC are selected. If a particular section is not shown here, then the defaults were used:

Time

- Enable NTP — On / Off
- Date Format — Sun DD Jan,YY
- Time Format — 24 hours
- Time Zone — GMT-05:00 hours
- Enable Daylight Saving Time — On / Off (DST)
- DST Start Month — 4
- DST Start Day — 2
- DST Start Hour — 2
- DST Start Min — 0
- DST End Month — 10
- DST End Day — 29
- DST End Hour — 2
- DST End Min — 0
- NTP Refresh Interval (60~3153600) — 7200
- NTP Server1 — 172.16.1.2
- NTP Server2 — 192.43.244.18

SIP

- Local Port (5000~40000) 5060
- T1 (0~65535) 500 ms
- T2 (0~65535) 4000 ms
- T4 (0~65535) 5000 ms
- Timer B (0:Disable, 500~65535) 0 ms
- Timer F (0:Disable, 500~65535) 0 ms
- Use User Agent ○ On ◉ Off
- User Agent Name BillASIP4
- Use Version On User Agent ○ On ◉ Off
- Use Vendor ID On User Agent ○ On ◉ Off
- Use MAC On User Agent ○ On ◉ Off
- Max Forwards 70
- Retry Hold On 491 ◉ On ○ Off
- Caller ID Mode Default
- ICT Transaction Max Count (0~100) 10
- Use rport ○ On ◉ Off
- Request REFER Timeout (0:Disable, 200~32000) 200 ms
- Wait REFER Response Timeout (0:Disable, 500~32000) 8000 ms
- 180 Retransmission Interval (0:Disable, 1~3600) 60 s

Redundancy

- Mode
  master/slave mode

- Request Timeout (0:Disable, 500~32000) 4000 ms
- Use Fixed Primary Server (●) On ( ) Off

Transfer

- Use Transfer Target Hold ( ) On (●) Off
- Use Consultation Transfer (●) On ( ) Off
- Use Blind Transfer (●) On ( ) Off
- Use 100 NOTIFY (●) On ( ) Off
- Use Attended Transfer On Incomming Call (●) On ( ) Off
- Use Contact For Refer To (●) On ( ) Off

System Setup/User Account

- Displayname BILLASIP4
- Phone Number 8317
- User ID testing
- User Password *******
- URL Scheme sip

System Setup/Server Settings

- 1st Proxy 10.10.220.29
- 1st Registrar
- 2nd Proxy 10.10.220.28
- 2nd Registrar
- Domain Realm
- Register Expire (60~86400) 3600 s
- Register Retry Backoff Interval 60,120,240,480,960 s (CSV Format)